	Application No.	Applicant(s)
Notice of Allowability	10/735,886	TAKAYAMA ET AL.
	Examiner	Art Unit
	Nitin Parekh	2811
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>4-24-06</u> .		
2. \boxtimes The allowed claim(s) is/are <u>1,4-6 and 18</u> .		
 3.	e been received. e been received in Application No becoments have been received in this of this communication to file a reply MENT of this application. Initted. Note the attached EXAMINER res reason(s) why the oath or declara st be submitted. son's Patent Drawing Review (PTO 's Amendment / Comment or in the Comment or in the Comment of the drawithe header according to 37 CFR 1.1216 posit of BIOLOGICAL MATERIAL	national stage application from the complying with the requirements I'S AMENDMENT or NOTICE OF ation is deficient. -948) attached Office action of the back) of (d). must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summary Paper No./Mail Da /08), 7. Examiner's Amend	ate

Application/Control Number: 10/735,886

Art Unit: 2811

DETAILED ACTION

Allowable Subject Matter

1. Claims 1, 4-6 and 18 are allowed.

Claims 7-17, non-elected without traverse, have been cancelled.

Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- A. Claim 1, line 4: Delete "trench" and insert --- "hole" ---.
- B. Claim 1, line 9: Insert --- "said hole" --- between "hole" and "so".
- C. Claim 18, line 7: Delete "trench" and insert --- "hole" ---.
- D. Claim 18, line 12: Insert --- "said hole" --- between "hole" and "so".

Authorization for this examiner's amendment was given in a telephone interview with Darren Crew on 6-21-06.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The references of record do not teach either singularly or in combination at least the limitations "said copper interconnection pattern having a top principal surface coincident to a top principal surface of said first interconnection laver and filling a hole formed in said first interconnection laver" and "a via-hole formed in said interlayer insulation film so as to expose said copper interconnection pattern", "wherein there is formed a conductive nitride film between an outer wall of said tungsten plug and an inner wall of said via-hole" and "said conductive nitride film being formed of a first nitride film and a second nitride film stacked inside said first nitride film" in a multilayer interconnection structure having copper interconnect wiring and tungsten filled via holes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Parekh whose telephone number is 571-272-1663. The examiner can normally be reached on 09:00AM-05:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAN or Public PAG. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAG system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Nitin Parekh

PRIMARY EAMINER

NP

TECHNOLOGY CENTER 2800

06-21-06